



Supp. Figure S1. Intracellular distribution of SAMHD1 AGS variant proteins in HeLa cells. HeLa cells expressing the indicated SAMHD1-FLAG variants were fixed and immunostained using antibodies against FLAG (red). Cellular nuclei were stained by using DAPI (blue).

SAMHD1 Variant	Exclusively nuclear	Exclusively cytoplasm	Throughout cell	Exclusively nuclear	Exclusively cytoplasm	Throughout cell	Exclusively nuclear	Exclusively cytoplasm	Throughout cell
WT	195	0	5	194	0	6	190	0	10
p.H123P	120	0	80	105	0	95	98	0	102
p.R143C	122	0	78	86	0	114	105	0	95
p.R143H	108	0	92	75	0	125	103	0	97
p.R145Q	103	0	97	96	0	104	87	0	113
p.H167Y	10	0	190	15	0	185	12	0	188
p.I201N	36	0	164	42	0	158	45	0	155
p.G209S	165	0	35	160	0	40	163	0	37
p.F217C	7	0	193	6	0	194	8	0	192
p.R226G	4	0	196	5	0	195	8	0	192
p.M254V	7	0	193	5	0	195	8	0	192
p.R290H	1	0	199	2	0	198	3	0	197
p.D311A	180	0	20	191	0	19	187	0	13
p.L369S	98	0	102	89	0	111	99	0	101
p.M385V	3	0	197	2	0	198	4	0	196
p.R442X	2	0	198	4	0	196	5	0	195
p.I448T	5	0	195	2	0	198	3	0	197
p.Q548A	40	0	160	47	0	153	50	0	150
p.Q548X	25	0	175	20	0	180	22	0	178

Supp. Table S1. Cells were scored visually for nuclear and cytoplasmic distribution. In every experiment two hundred cells were counted. The analysis of the distribution was performed in human HeLa cells. Three independent experiments are shown.